

FIG. 2

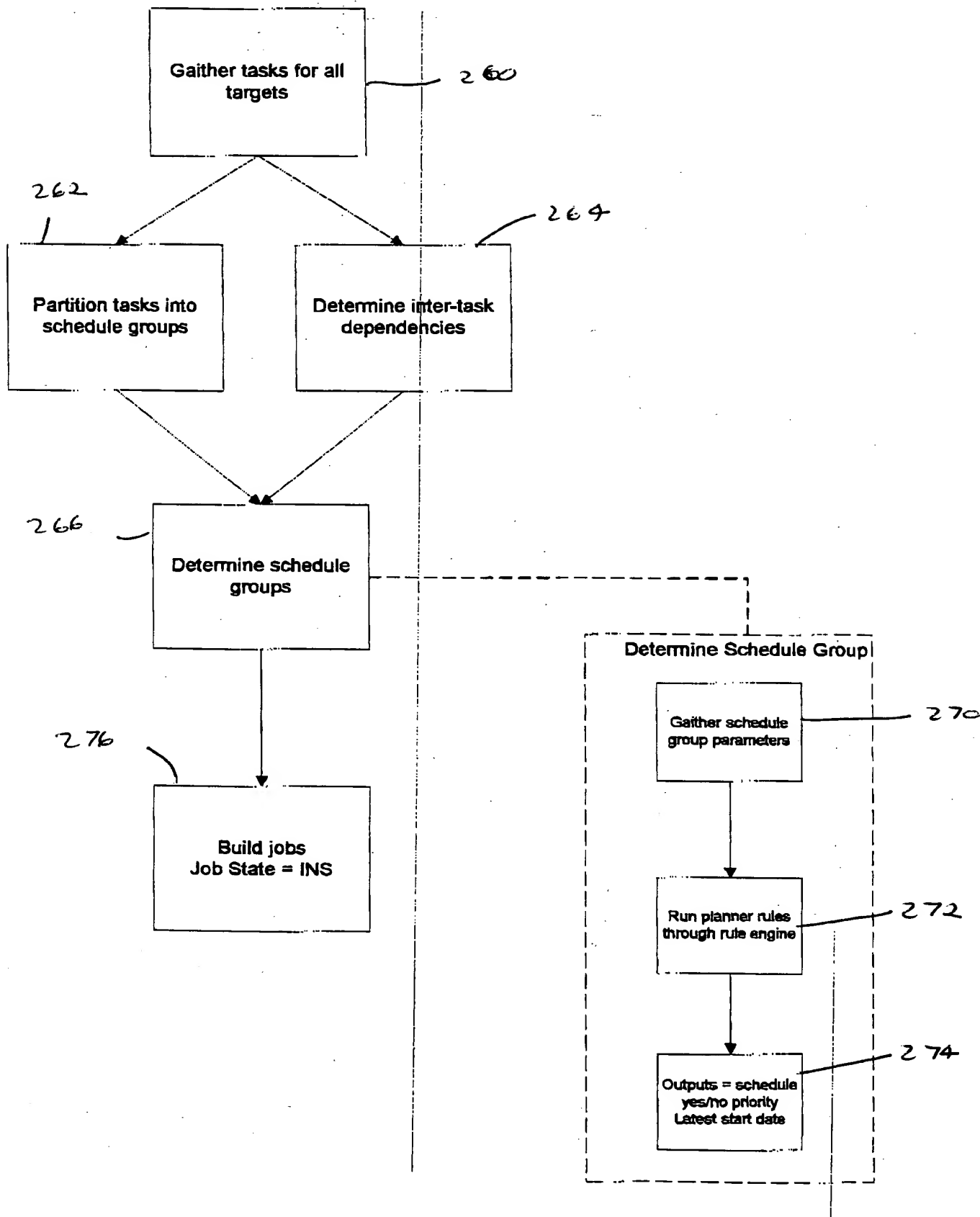


FIG. 4

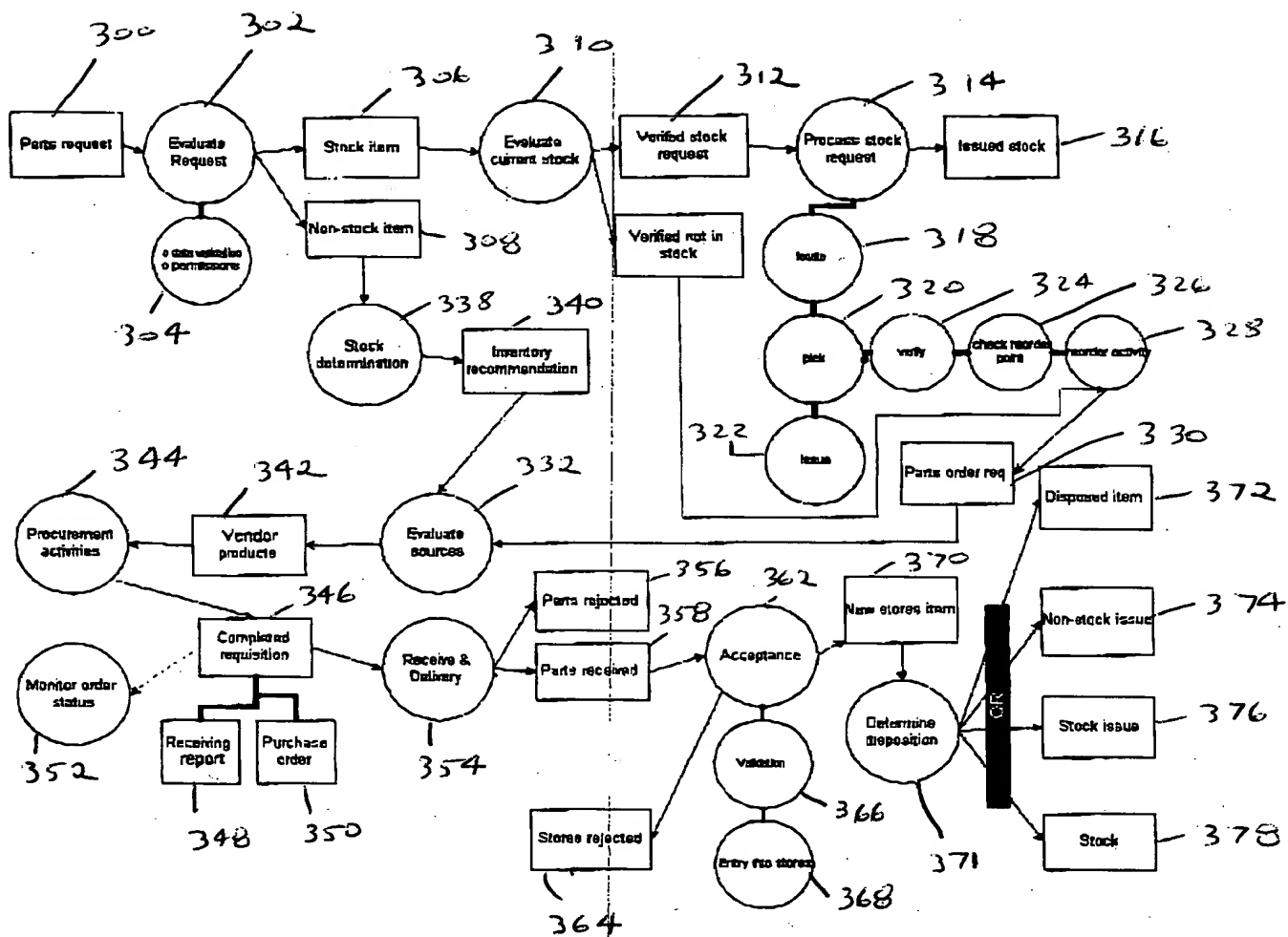


FIG. 5

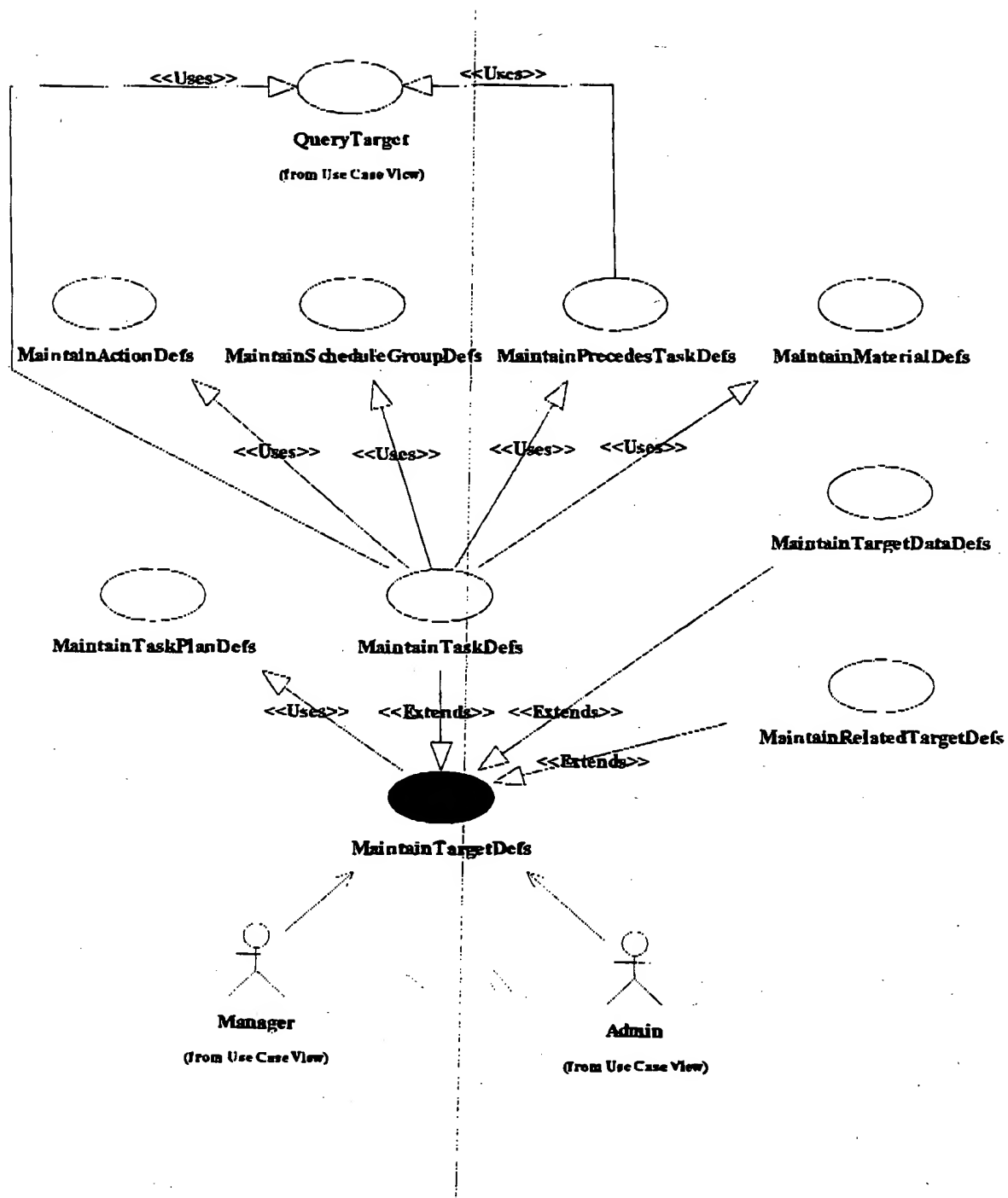
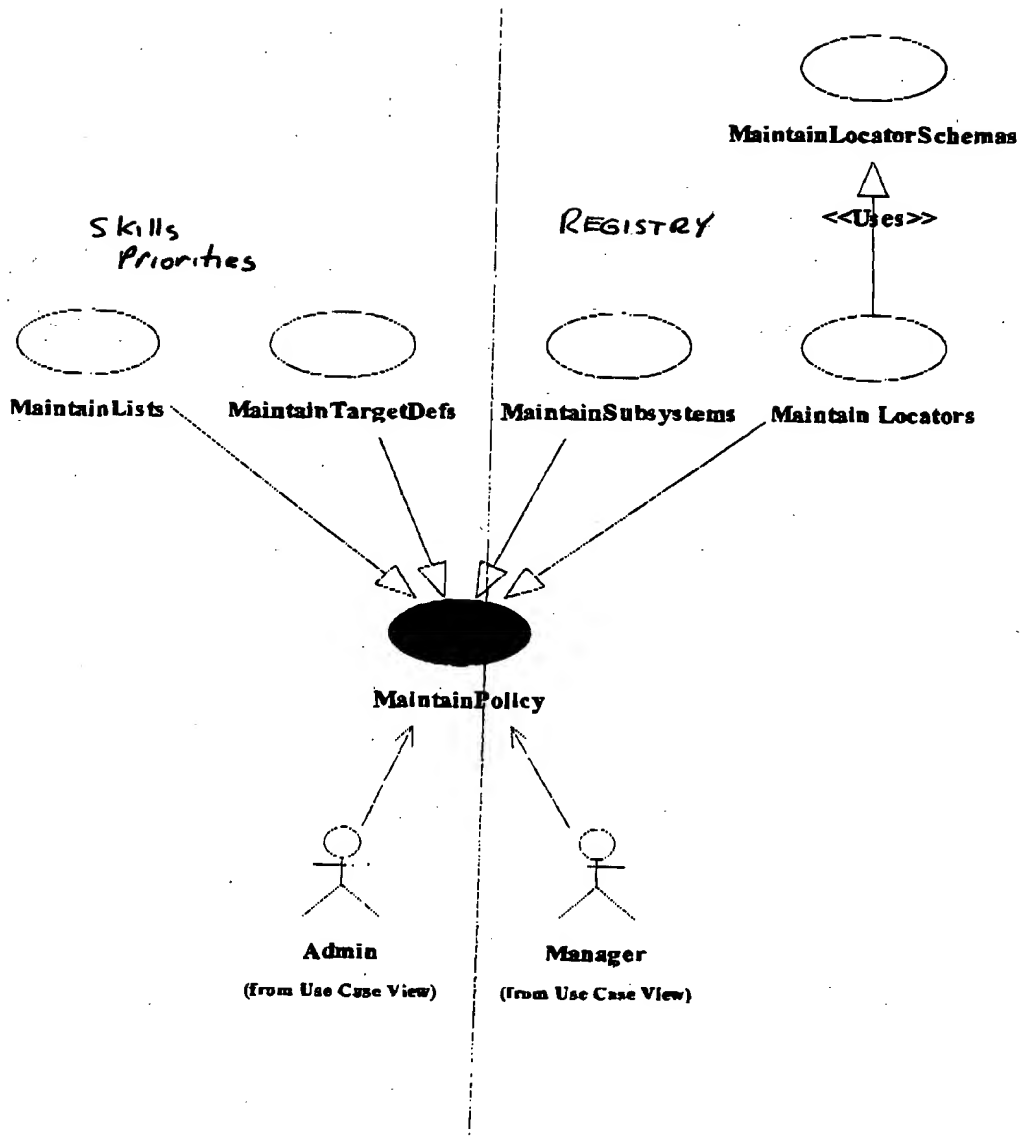


FIG. 7



F. G. 8


```

    usecaseDiagram
        actor Manager
        actor Admin
        actor Client

        usecase UC1[MaintainProjects]
        usecase UC2[MaintainProjectJobs]
        usecase UC3[MaintainJobs]
        usecase UC4[TenantRequests]
        usecase UC5[AssignJobWorkers]
        usecase UC6[MaintainFieldConditions]
        usecase UC7[AssignJobTasks]
        usecase UC8[UpdateJobMaterial]
        usecase UC9[UpdateFieldConditions]
        usecase UC10[QueryTarget]
        usecase UC11[SelectTarget]
        usecase UC12[SelectClassification]
        usecase UC13[SelectLocators]

        UC1 --> UC2 : <<Uses>>
        UC1 --> UC3 : <<Uses>>
        UC1 --> UC4 : <<Uses>>
        UC2 --> UC5 : <<Extends>>
        UC2 --> UC6 : <<Extends>>
        UC2 --> UC7 : <<Extends>>
        UC2 --> UC8 : <<Extends>>
        UC2 --> UC9 : <<Extends>>
        UC2 --> UC10 : <<Extends>>
        UC2 --> UC11 : <<Extends>>
        UC2 --> UC12 : <<Extends>>
        UC2 --> UC13 : <<Extends>>
        UC3 --> UC5 : <<Extends>>
        UC3 --> UC6 : <<Extends>>
        UC3 --> UC7 : <<Extends>>
        UC3 --> UC8 : <<Extends>>
        UC3 --> UC9 : <<Extends>>
        UC3 --> UC10 : <<Extends>>
        UC3 --> UC11 : <<Extends>>
        UC3 --> UC12 : <<Extends>>
        UC3 --> UC13 : <<Extends>>
        UC4 --> UC5 : <<Extends>>
        UC4 --> UC6 : <<Extends>>
        UC4 --> UC7 : <<Extends>>
        UC4 --> UC8 : <<Extends>>
        UC4 --> UC9 : <<Extends>>
        UC4 --> UC10 : <<Extends>>
        UC4 --> UC11 : <<Extends>>
        UC4 --> UC12 : <<Extends>>
        UC4 --> UC13 : <<Extends>>
        UC5 --> UC6 : <<Uses>>
        UC6 --> UC7 : <<Uses>>
        UC7 --> UC8 : <<Uses>>
        UC8 --> UC9 : <<Uses>>
        UC9 --> UC10 : <<Uses>>
        UC10 --> UC11 : <<Uses>>
        UC11 --> UC12 : <<Uses>>
        UC12 --> UC13 : <<Uses>>
        UC13 --> UC1 : <<Includes>>
        UC13 --> UC2 : <<Includes>>
        UC13 --> UC3 : <<Includes>>
        UC13 --> UC4 : <<Includes>>
        UC13 --> UC5 : <<Includes>>
        UC13 --> UC6 : <<Includes>>
        UC13 --> UC7 : <<Includes>>
        UC13 --> UC8 : <<Includes>>
        UC13 --> UC9 : <<Includes>>
        UC13 --> UC10 : <<Includes>>
        UC13 --> UC11 : <<Includes>>
        UC13 --> UC12 : <<Includes>>
        UC13 --> UC13 : <<Includes>>
    
```

FIG. 9

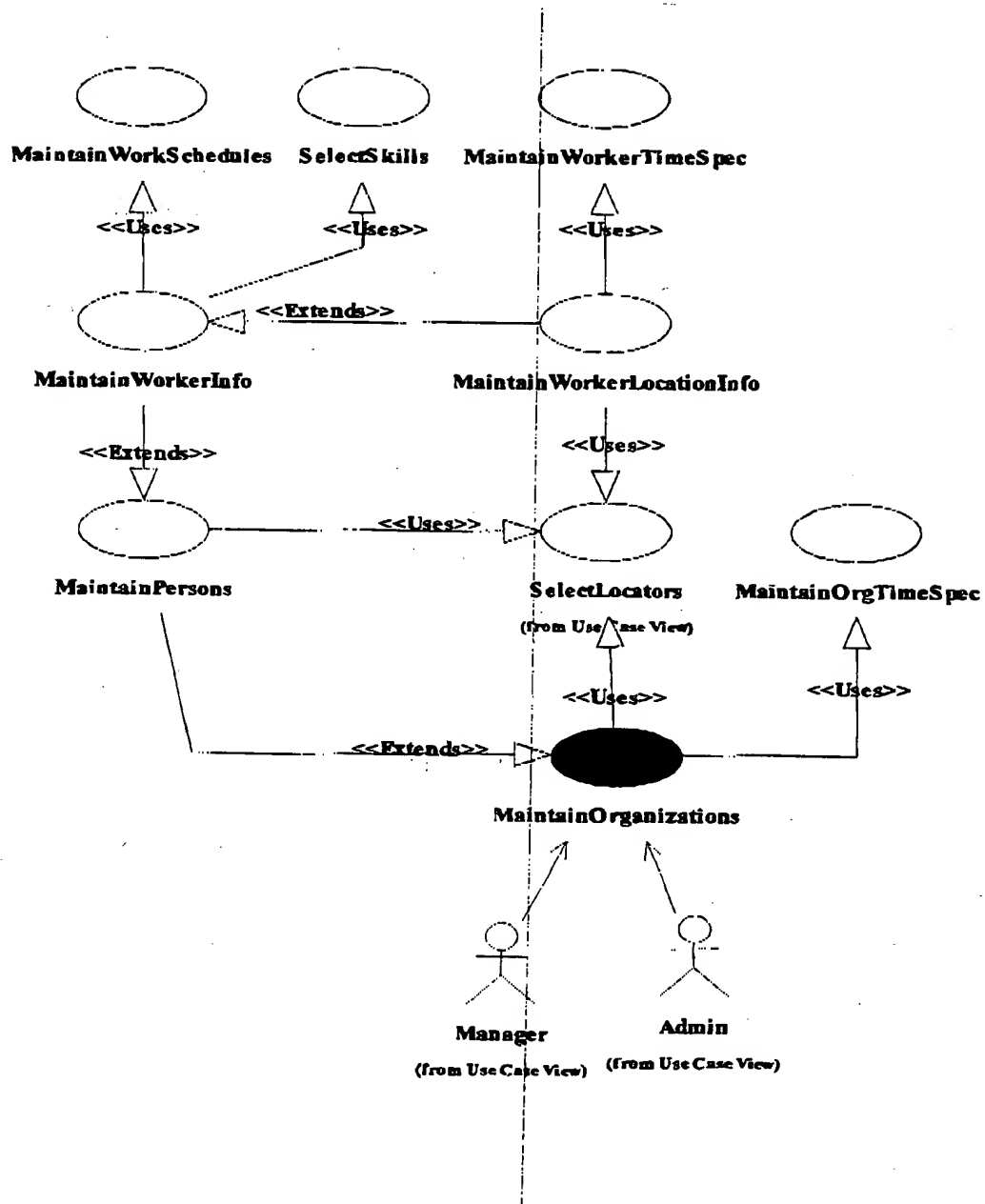


FIG. 10

```

    usecaseDiagram
        actor Manager as Manager (from Use Case View)
        actor Admin as Admin (from Use Case View)

        usecase UC1 as MaintainRelatedTargets
        usecase UC2 as Select Classification (from Use Case View)
        usecase UC3 as QueryTarget (from Use Case View)
        usecase UC4 as MaintainTargets
        usecase UC5 as SelectLocators (from Use Case View)
        usecase UC6 as MaintainTargetsData
        usecase UC7 as MaintainMaterials
        usecase UC8 as MaintainActions
        usecase UC9 as MaintainScheduleGroups
        usecase UC10 as MaintainPrecedes Task
        usecase UC11 as MaintainTaskPlan

        Manager --> UC1 : <<Uses>>
        UC1 --> UC2 : <<Uses>>
        Admin --> UC4 : <<Uses>>
        UC4 --> UC1 : <<Extends>>
        UC4 --> UC3 : <<Uses>>
        UC3 --> UC2 : <<Uses>>
        UC3 --> UC5 : <<Uses>>
        UC4 --> UC6 : <<Extends>>
        UC4 --> UC6 : <<Uses>>
        UC4 --> UC7 : <<Uses>>
        UC4 --> UC8 : <<Uses>>
        UC4 --> UC9 : <<Uses>>
        UC4 --> UC10 : <<Uses>>
        UC4 --> UC11 : <<Uses>>
    
```

F. G. 11

Cleanup Algorithm

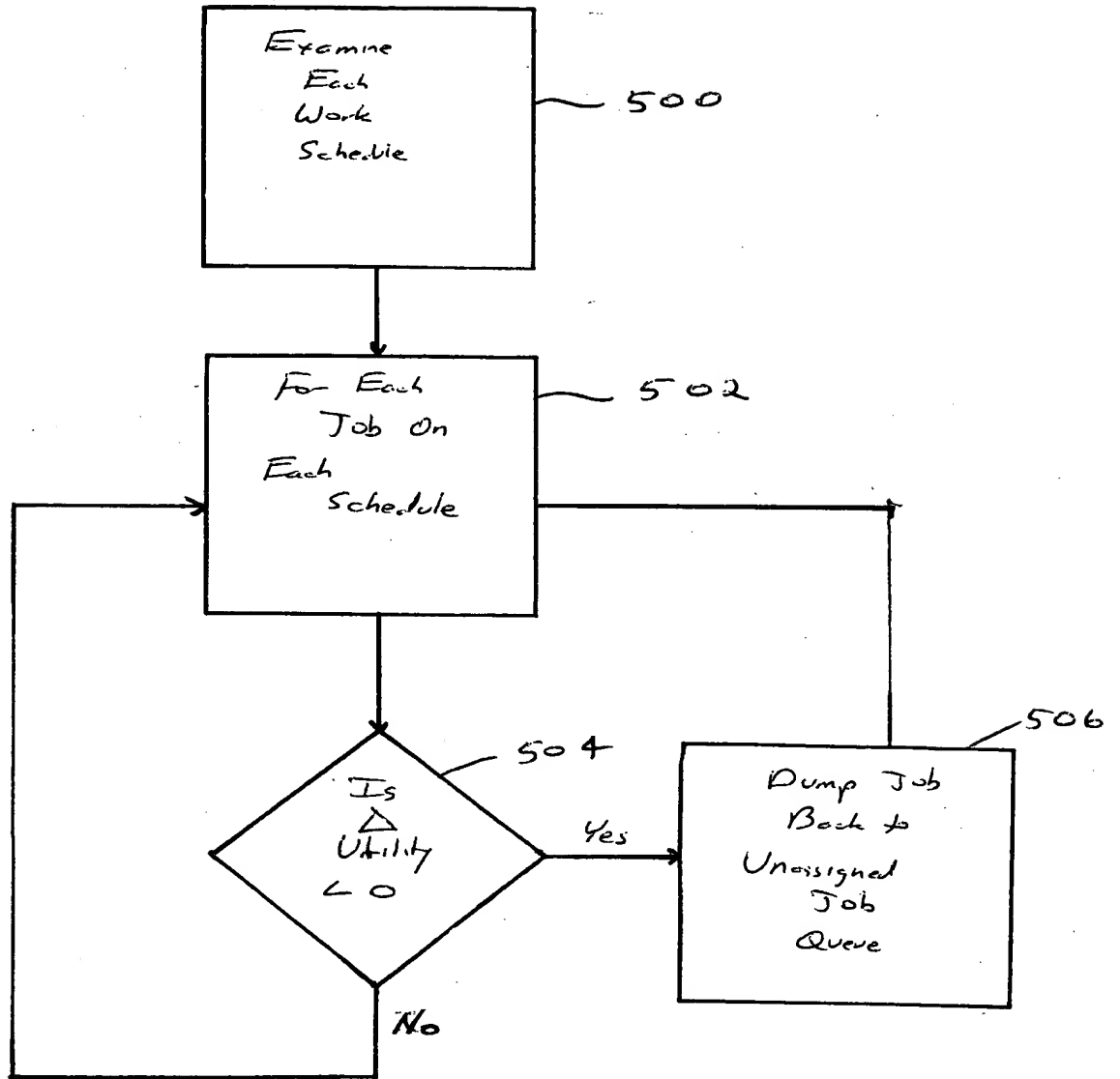


FIG. 12

Brute Force Scheduling Algorithm

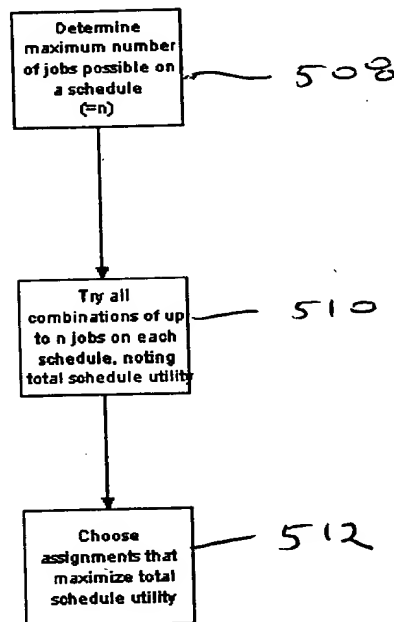


FIG. 13

Reschedule

Algorithm

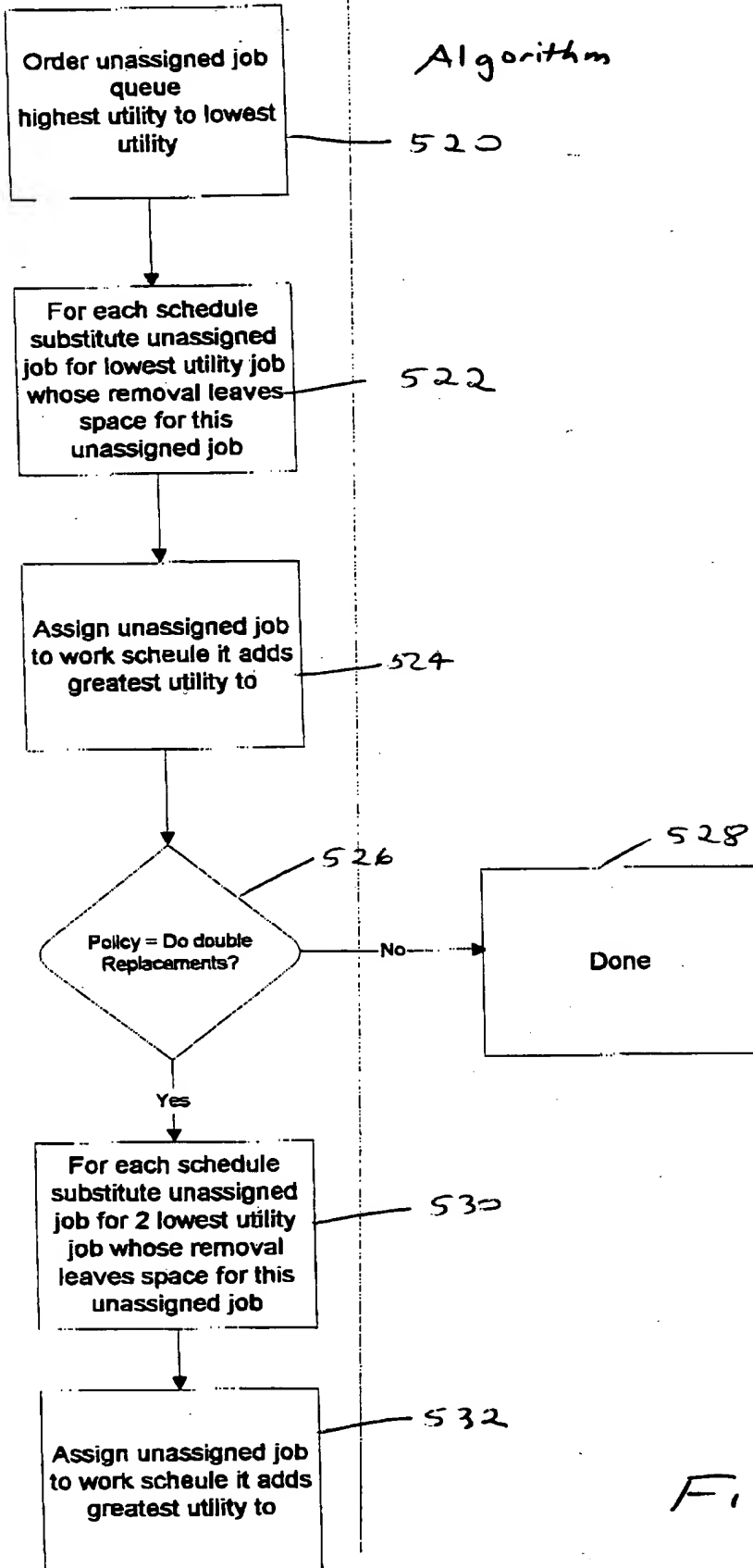


FIG. 14

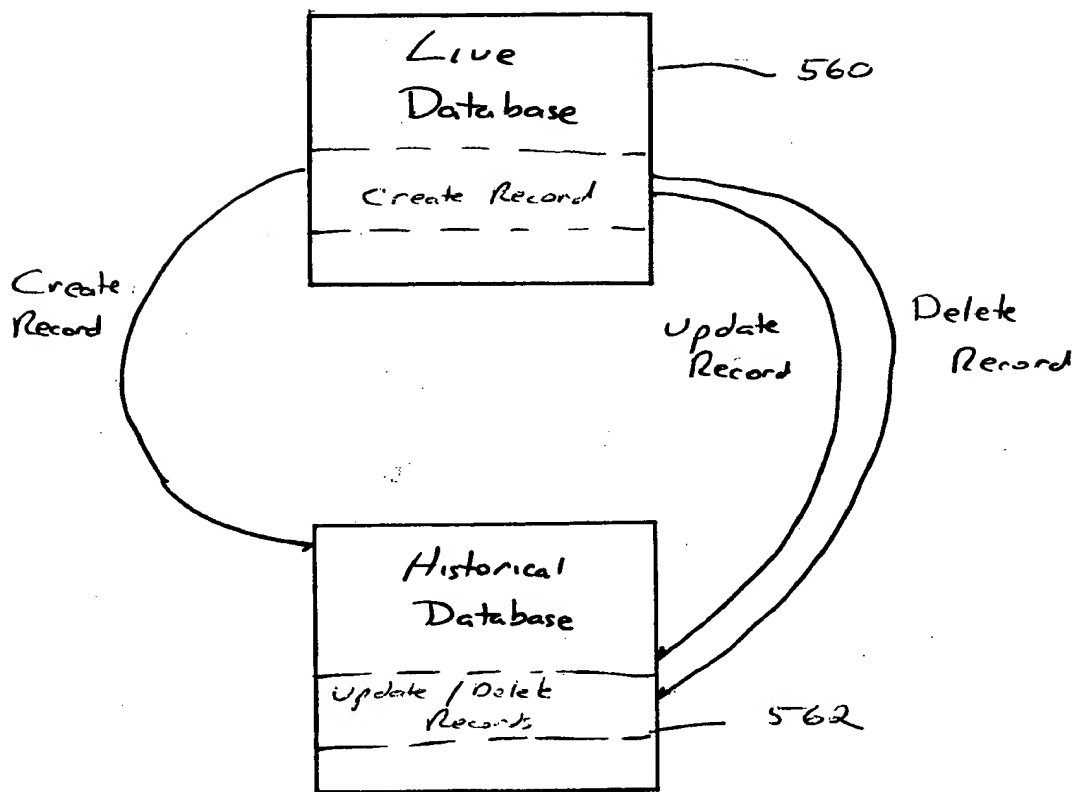


FIG. 16

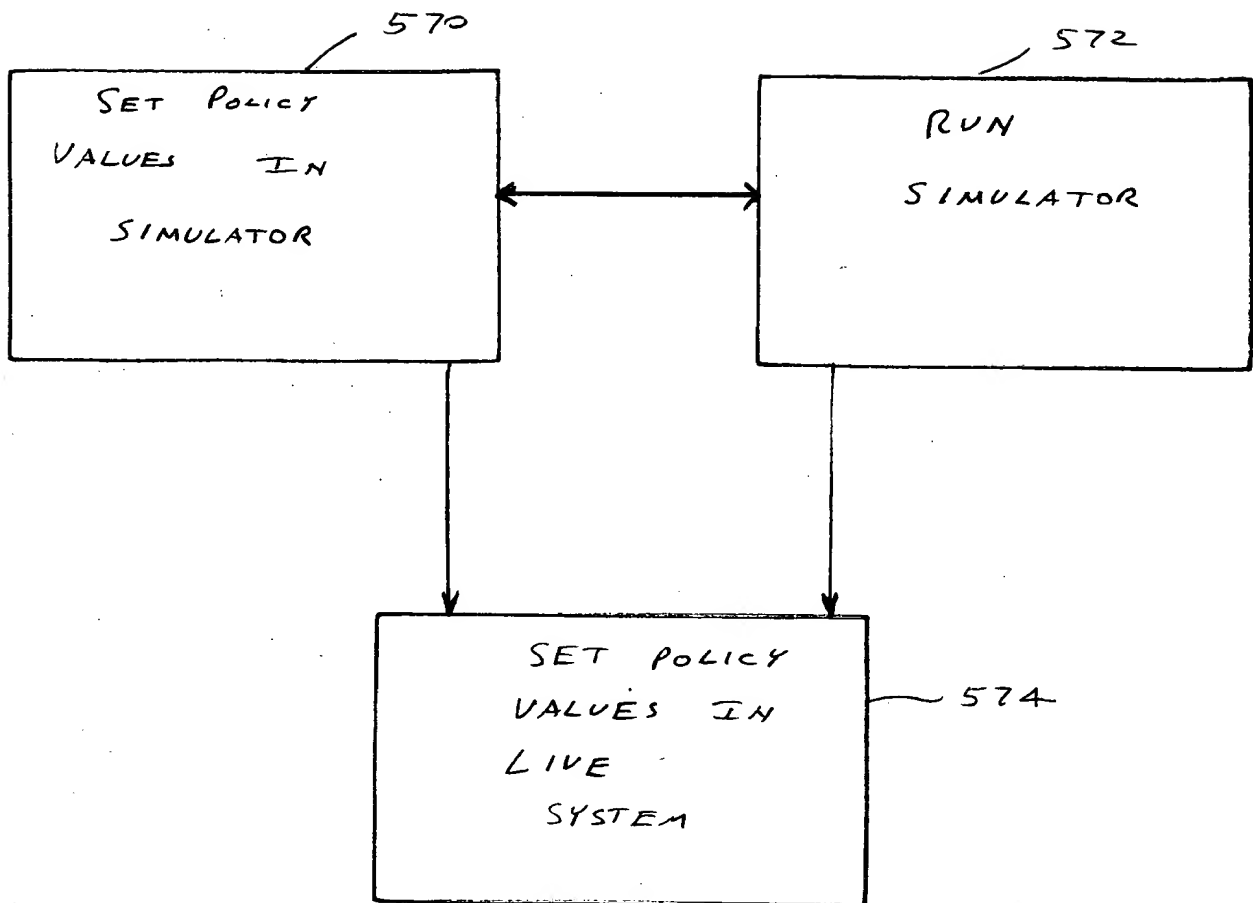


FIG. 17